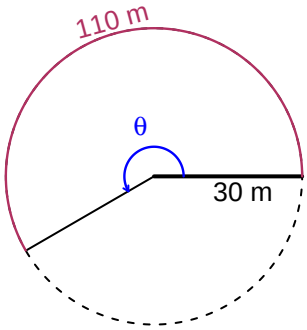
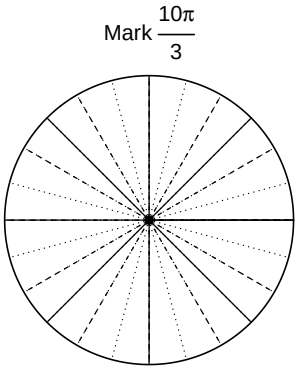
Name: Date:

u16we (Practice v1)

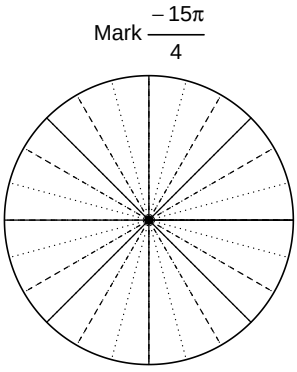
1. In the figure below, we see a circle and a central angle that subtends an arc. The radius is 30 meters. The arc length is 110 meters. What is the angle measure in radians?



2. Consider angles $\frac{10\pi}{3}$ and $\frac{-15\pi}{4}$. For each angle, use a spiral with an arrow head to **mark** the angle on a circle below in standard position. Then, find **exact** expressions for $\sin\left(\frac{10\pi}{3}\right)$ and $\cos\left(\frac{-15\pi}{4}\right)$ by using a unit circle (provided separately).



Find $\sin(10\pi/3)$



Find $\cos(-15\pi/4)$